



WISCONSIN DEPARTMENT OF HEALTH SERVICES
Division of Public Health
Bureau of Communicable Diseases and Emergency Response



Respiratory virus surveillance report for the week ending January 5, 2013 week 13-01

AT-A-GLANCE

- Respiratory viruses identified this week :
Influenza (A/H3, and B), RSV and Rhino/enterovirus were predominant viruses.
- Influenza-like illness (ILI) activity for this week

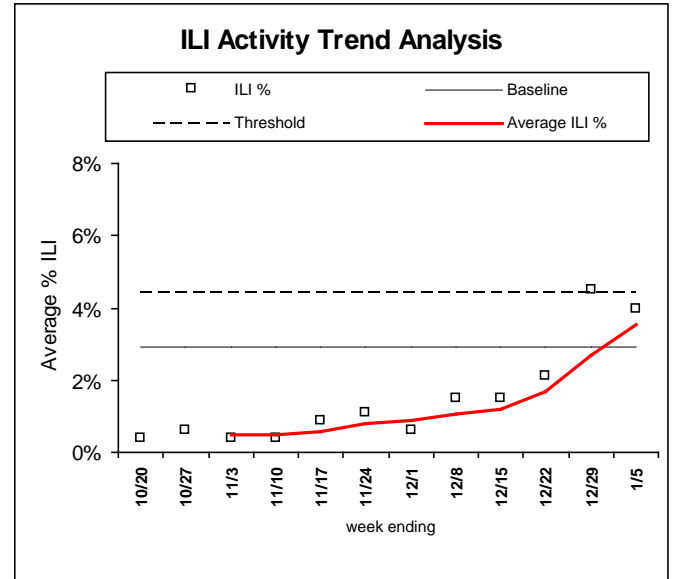
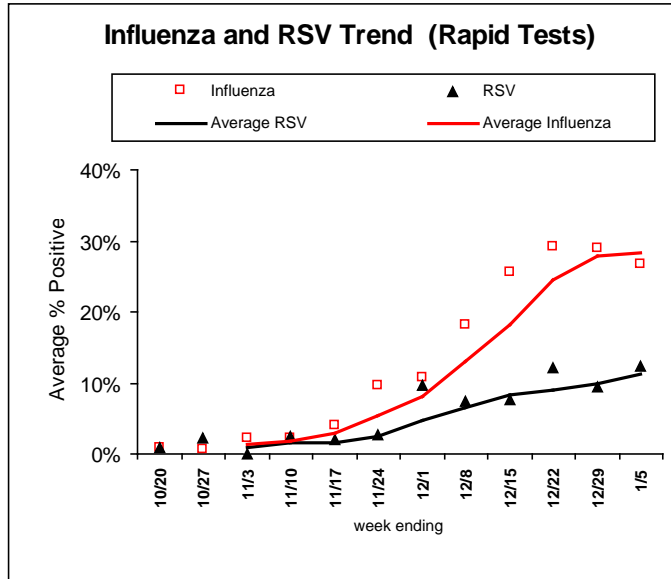
Wisconsin	Moderate
Wisconsin (CDC level)	Moderate
Western Region	Low
Northern Region	High
Northeastern Region	High
Southeastern Region	High
Southern Region	Low
- ILI activity in Region V of the U.S. (WI, MN, IL, MI, OH, IN) is above regional baseline levels.
- ILI activity in the U.S. is above baseline levels
- The Predictive Value Positive (PVP) for rapid influenza tests is: moderate and increasing.
(PVP is the probability of disease in a patient with a positive test result)
- The Predictive Value Negative (PVN) for rapid influenza tests is: moderate and decreasing.
(PVN is the probability of not having disease when the test result is negative)
- Influenza-associated pediatric deaths (October 5, 2012-present)

	<u>Week 13-01</u>	<u>Total to Date</u>
Wisconsin	0	1
United States	2	20

WISCONSIN and REGIONAL SUMMARIES
(Trend analysis based on 3-week moving averages)

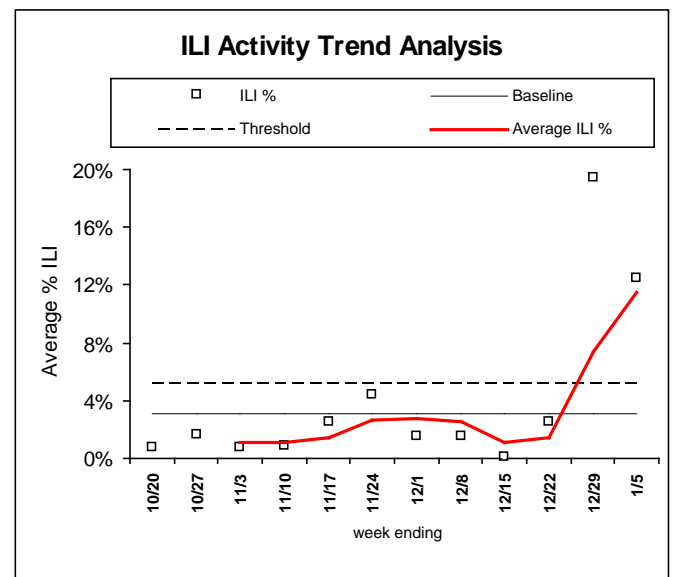
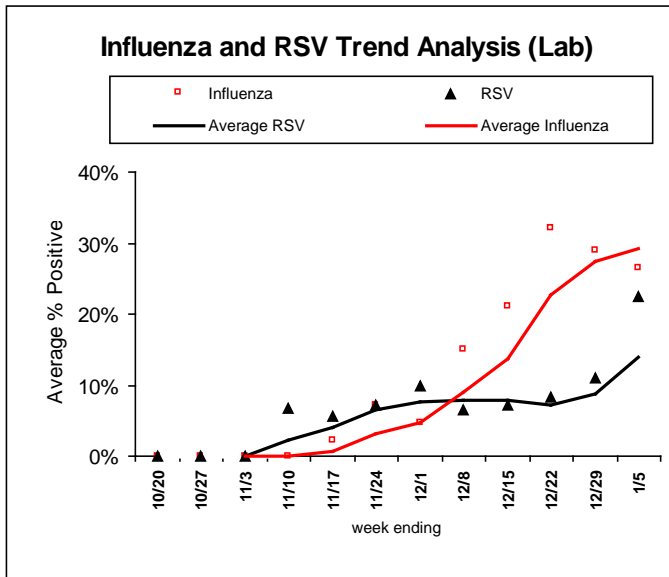
Wisconsin (ILI activity is High)

INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
5087	1161	197	1358	26.7%	521	64	12.3%	4.0%	2.9%	4.4%



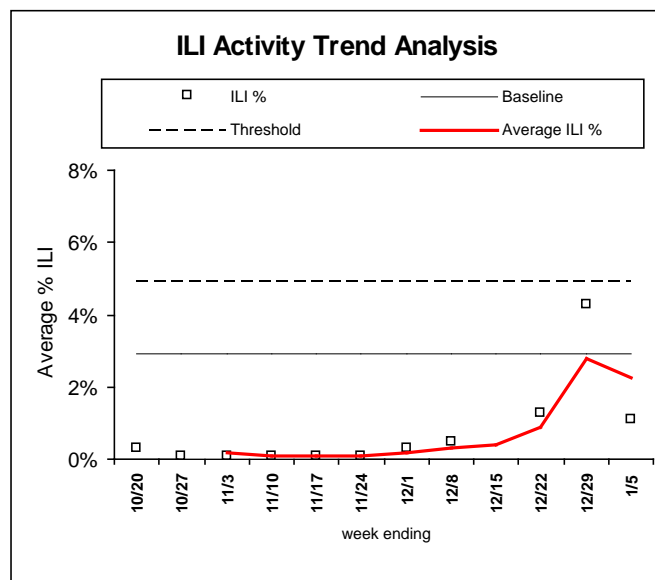
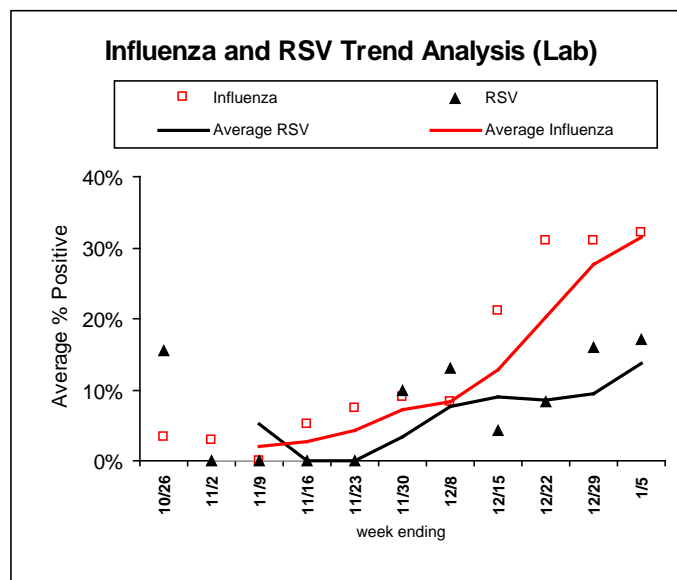
Northern Region (ILI activity is High)

INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
901	156	83	239	26.5%	76	17	22.4%	12.5%	3.1%	5.2%



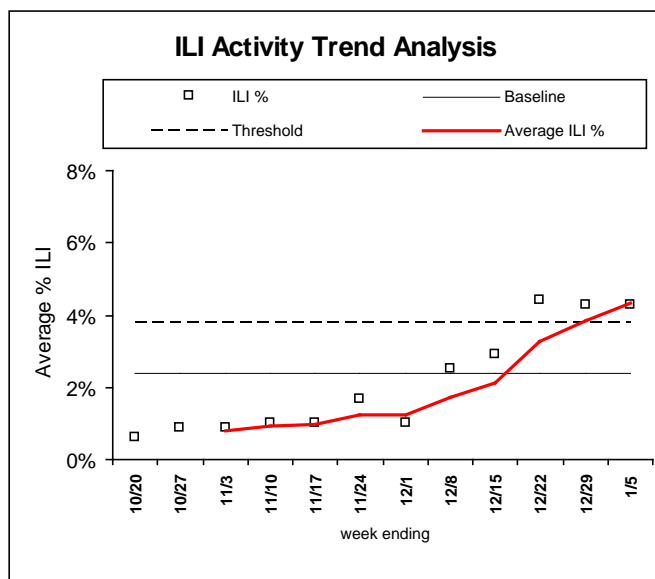
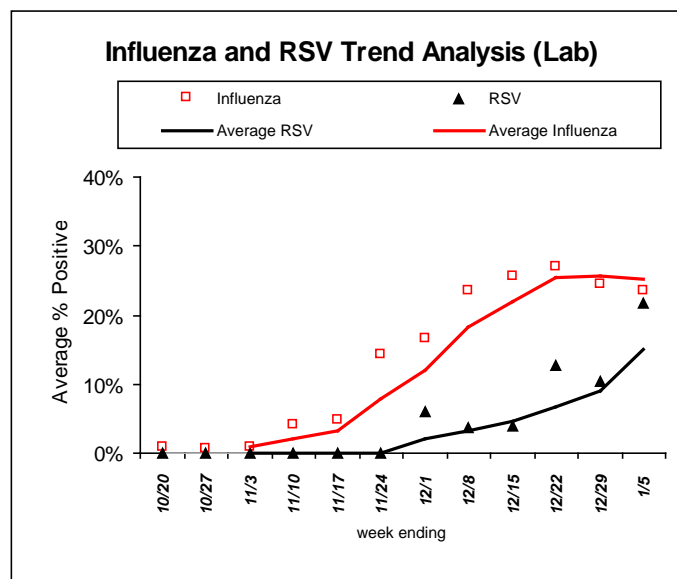
Western Region (ILI activity is Moderate)

INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
731	201	34	235	32.1%	41	7	17.1%	1.1%	2.9%	4.9%



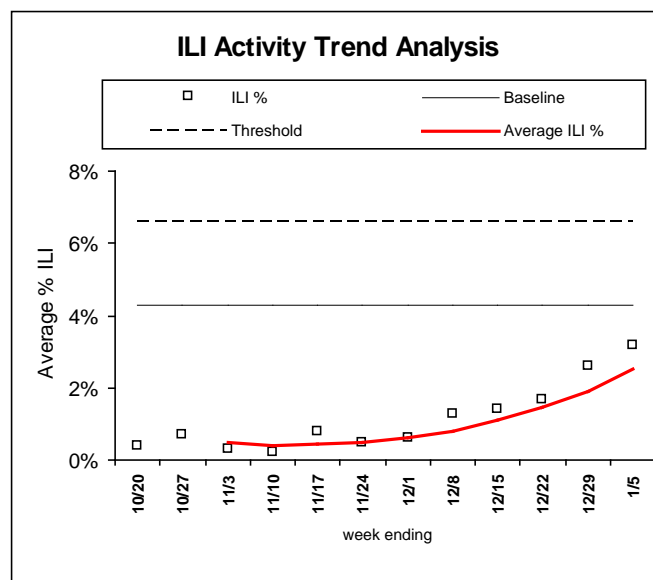
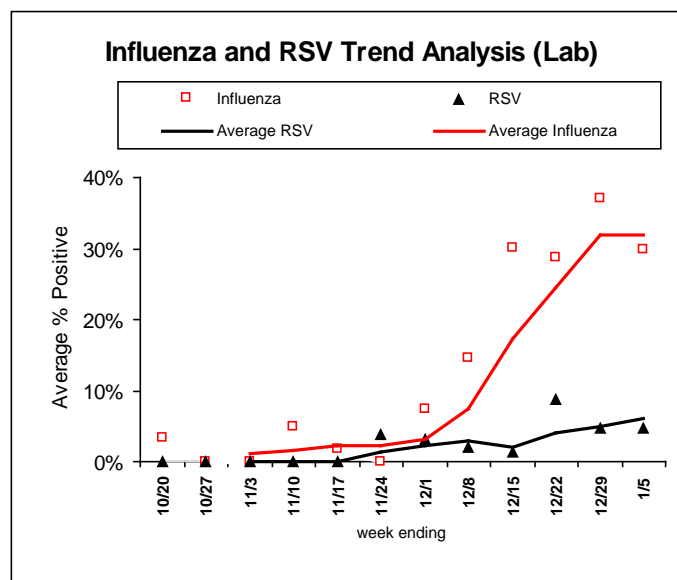
Northeastern Region (ILI activity is High)

INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
1484	307	43	350	23.6%	87	19	21.8%	4.3%	2.4%	3.8%



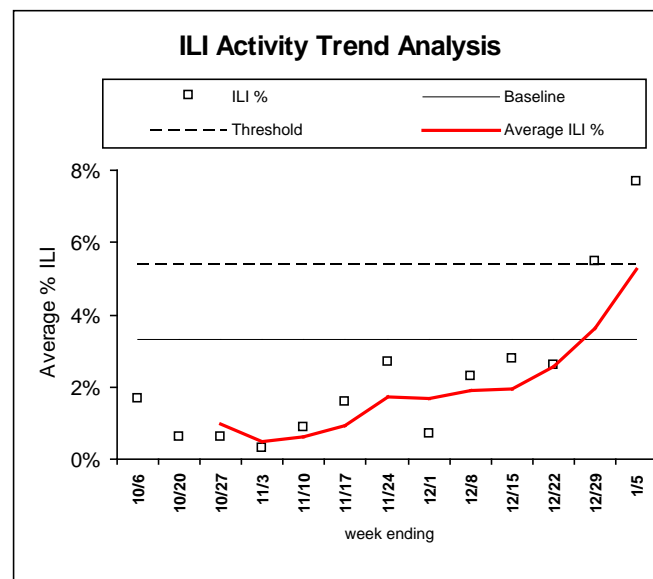
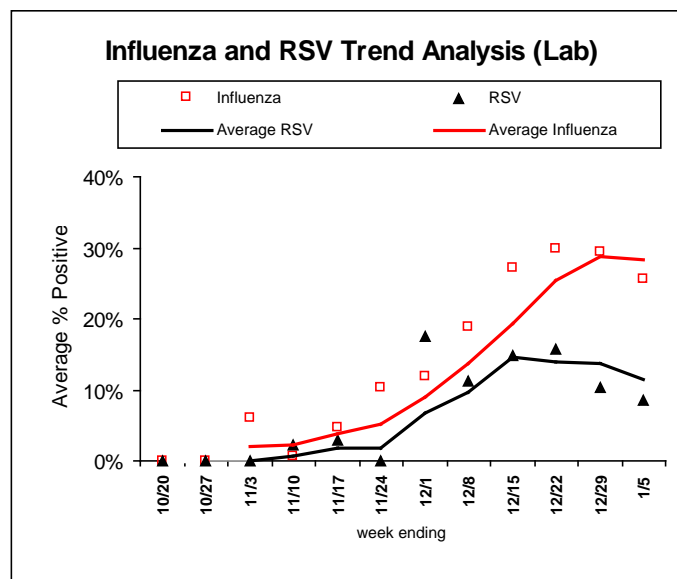
Southern Region (ILI activity is Low)

INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
661	184	13	197	29.8%	165	8	4.8%	3.2%	4.3%	6.6%



Southeastern Region (ILI activity is High)

INFLUENZA RAPID ANTIGEN TESTS					RSV RAPID ANTIGEN TESTS			INFLUENZA-LIKE ILLNESS		
Tested	Positive			% Positive	Tested	Positive	% Positive	ILI %	Baseline	Threshold
	Flu A	Flu B	Total							
1310	313	24	337	25.7%	152	13	8.6%	7.7%	3.3%	5.4%



LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES (PCR)

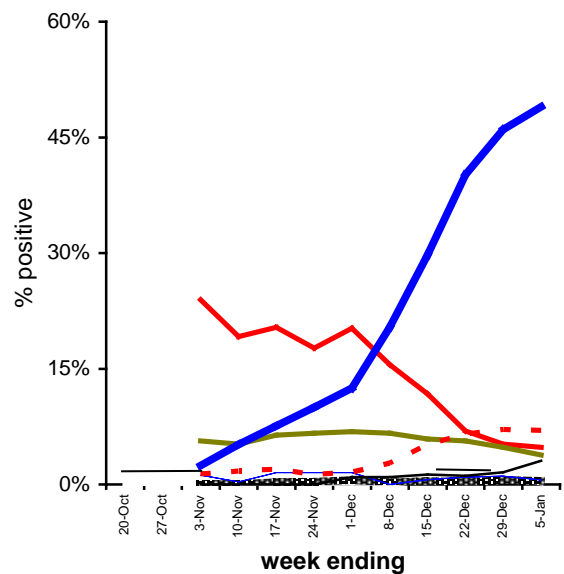
Respiratory Agent	Tested	Positive	% Positive	Flu A 2009/H1N1	Flu A Seasonal H3	Flu A (Unk)	Flu B
Influenza	2955	1426	48.3%	3	294	964	161

Respiratory Agent	Tested	Positive	% Positive	P1	P2	P3	P4
Parainfluenza	565	9	1.6%	1	4	4	0

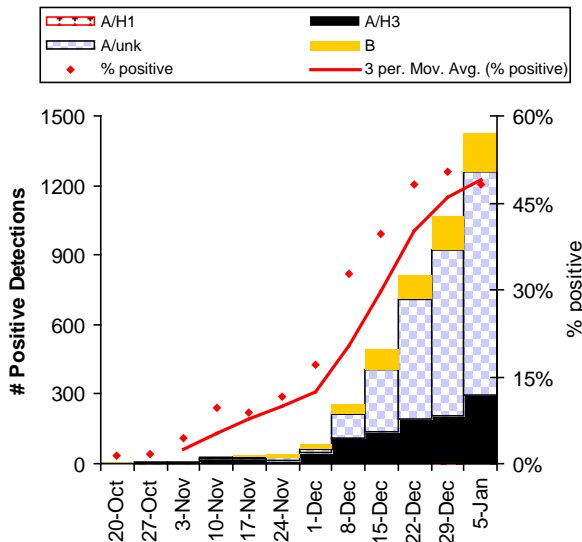
Respiratory Agent	Tested	Positive	% Positive	CoV-229E	CoV-OC43	CoV-NL63	CoV-HKU1
Coronavirus	335	18	5.4%	1	12	5	0

Respiratory Agent	Tested	Positive	% Positive
RSV	903	63	7.0%
Human Metapneumovirus	523	1	0.2%
Rhino-entero	479	16	3.3%
Adenovirus	455	2	0.4%

Trends in Respiratory Virus Activity PCR
using a 3-week moving average



Wisconsin Positive Influenza Results PCR



Cumulative number of positive influenza tests
By subtype, October 5, 2012 to present

	2009 A/H1	Seasonal A/H3	A/Unknown	B	Total
Total Number positive	18	1032	2602	597	4249
% of Total number positive	<1%	24%	61%	14%	100%
	Total Influenza A % 86%			Total Influenza B % 14%	

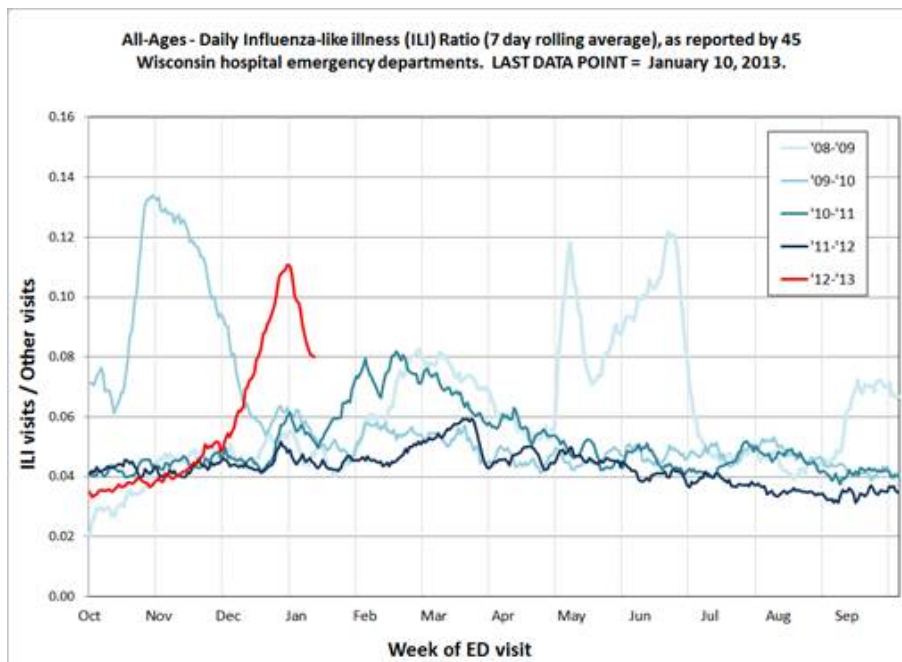
Influenza-associated Hospitalizations, October 5, 2012 to present

New hospitalizations this week: 600

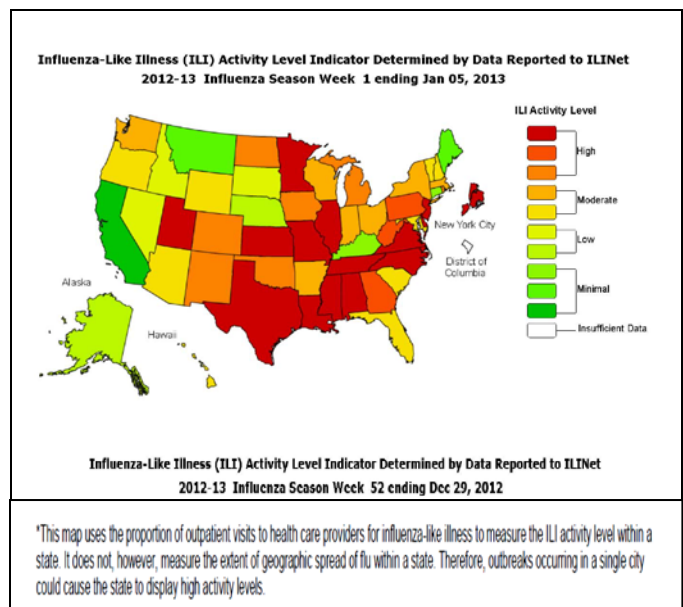
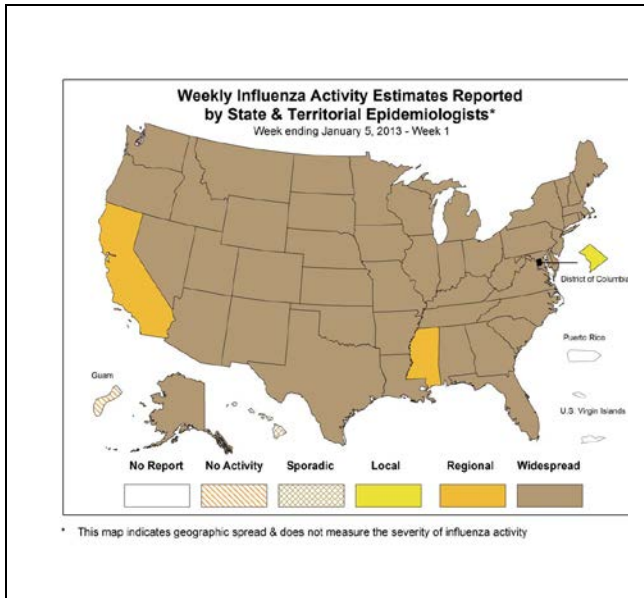
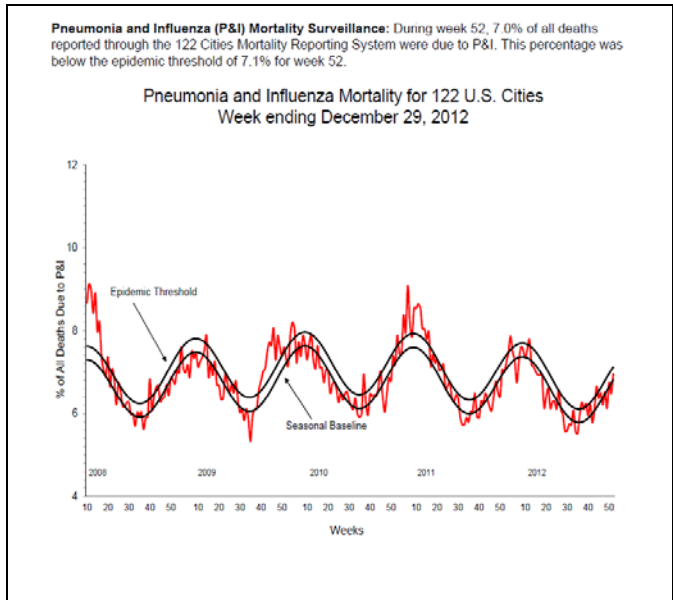
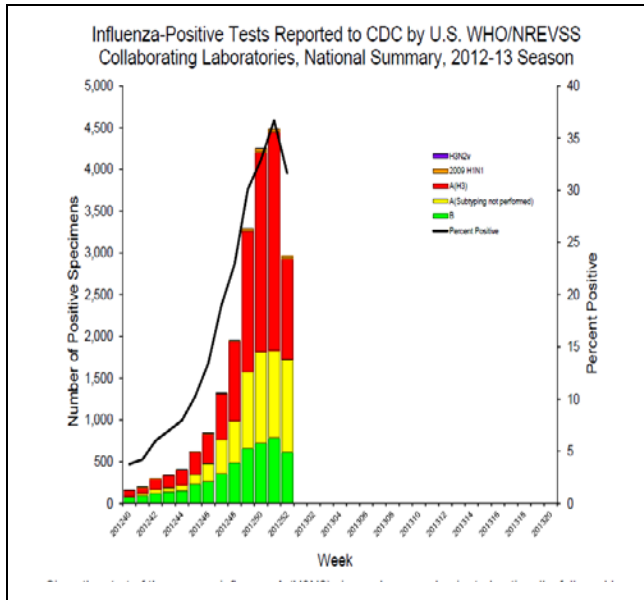
Age Group	Total Number Reported (2012-13)	Influenza Subtypes				Not reported	Admitted to ICU	Required Mechanical Ventilation
		A/H1	A/H3	A/Unknown or undetermined	B			
< 1 year	42	0	1	34	3	4	5	3
1 to 4	24	0	1	18	5	0	3	1
5 to 17	37	1	1	22	10	3	12	4
18 to 49	182	1	33	121	11	16	19	5
50 to 64	206	2	33	141	10	20	25	4
65 and over	869	5	115	627	28	94	90	16
Total	1360	9	184	963	67	137	154 11%	33 2.4%

Cumulative hospitalization rate /100,000 age specific population

Graphs will be included later in the influenza season

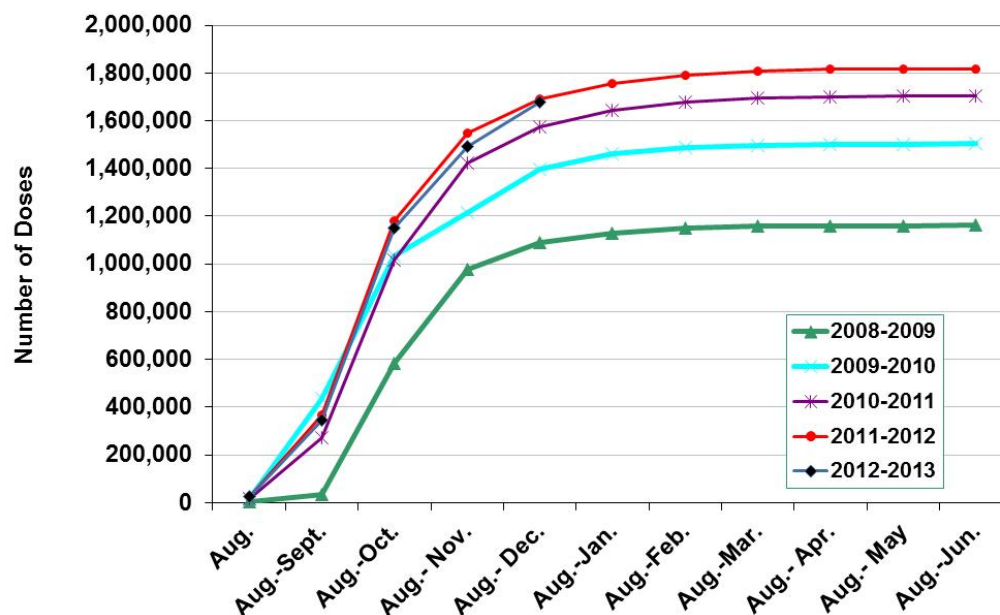


NATIONAL INFLUENZA SURVEILLANCE



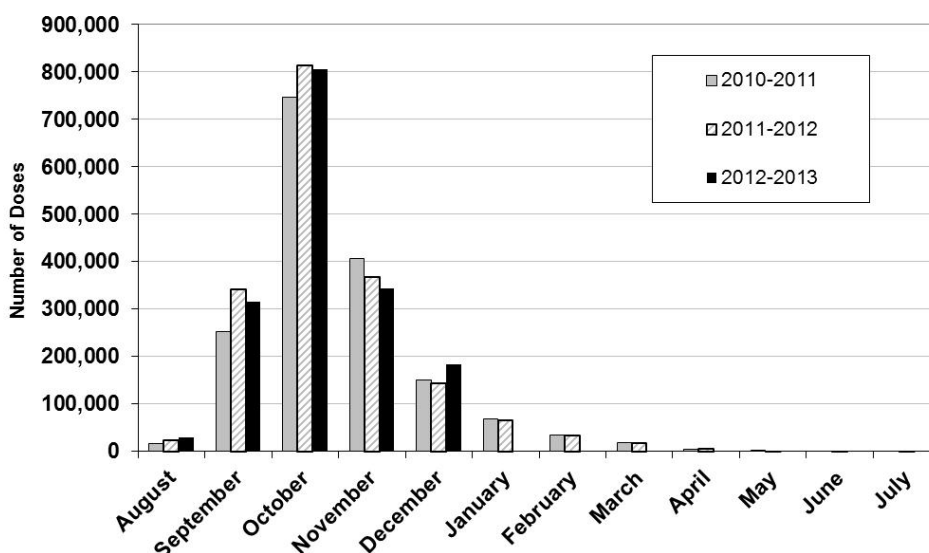
Seasonal Influenza Vaccination in Wisconsin **Based on Doses Reported to the Wisconsin Immunization Registry (WIR)** **Jan. 11, 2013**

**Cumulative Doses of Seasonal Influenza Administered and Reported to the WIR,
2008-2013 Influenza Seasons**



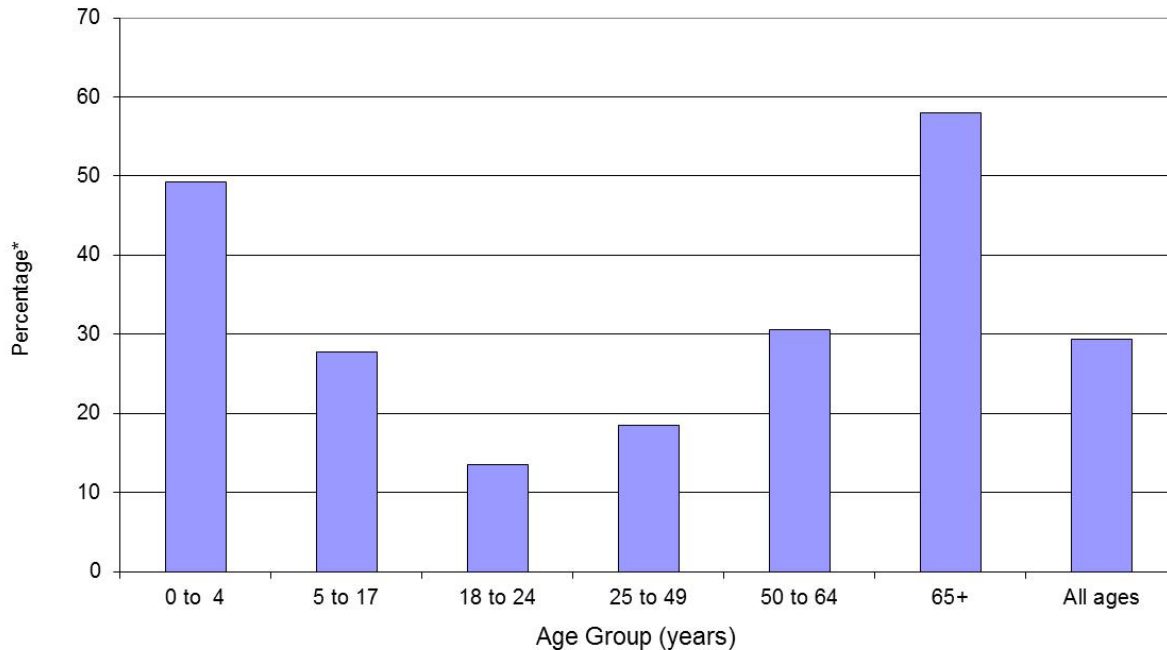
Data source: WIR
2012-2013 data 8.1.12 through 12.31.12

**Number of Doses of Seasonal Influenza Vaccine Administered and Reported to
the WIR, by Month for Influenza Seasons 2010-2012**



*Data source: WIR,
2012-2013 data through 12.31.12

**Rates of Influenza Vaccination in Wisconsin by Age Group, 2012-2013 Influenza Season,
Based on Doses Reported to the Wisconsin Immunization Registry (WIR)**



* Numerator: Number of persons recorded in the WIR as having received at least one dose of seasonal influenza vaccine between 8/1/2012 to 12/31/2012, by age group. Denominator source: 2010 Wisconsin Interactive Statistics on Health (WISH) population estimates, by age group

- These graphs include only doses of seasonal influenza vaccine administered and reported to the Wisconsin Immunization Registry (WIR).
- Data for 2012-2013 season is incomplete because of the expected lag between the vaccine administration date and the date reported to the WIR, which may be as short as one day or as long as several months, depending on the submitter. Therefore, the current season's data will be adjusted as additional data is received.
- While use of the WIR is not mandatory, the WIR receives data from a variety of sources, including health care providers, health maintenance organizations, local health departments and tribal health centers/clinics, schools and pharmacies.
- For additional information regarding the immunization data, please contact Stephanie Schauer, epidemiologist, with the Wisconsin Immunization Program at (608) 264-9884.